

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P260788

Luminaire Tested: **24CZ-LD5-75-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7762.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

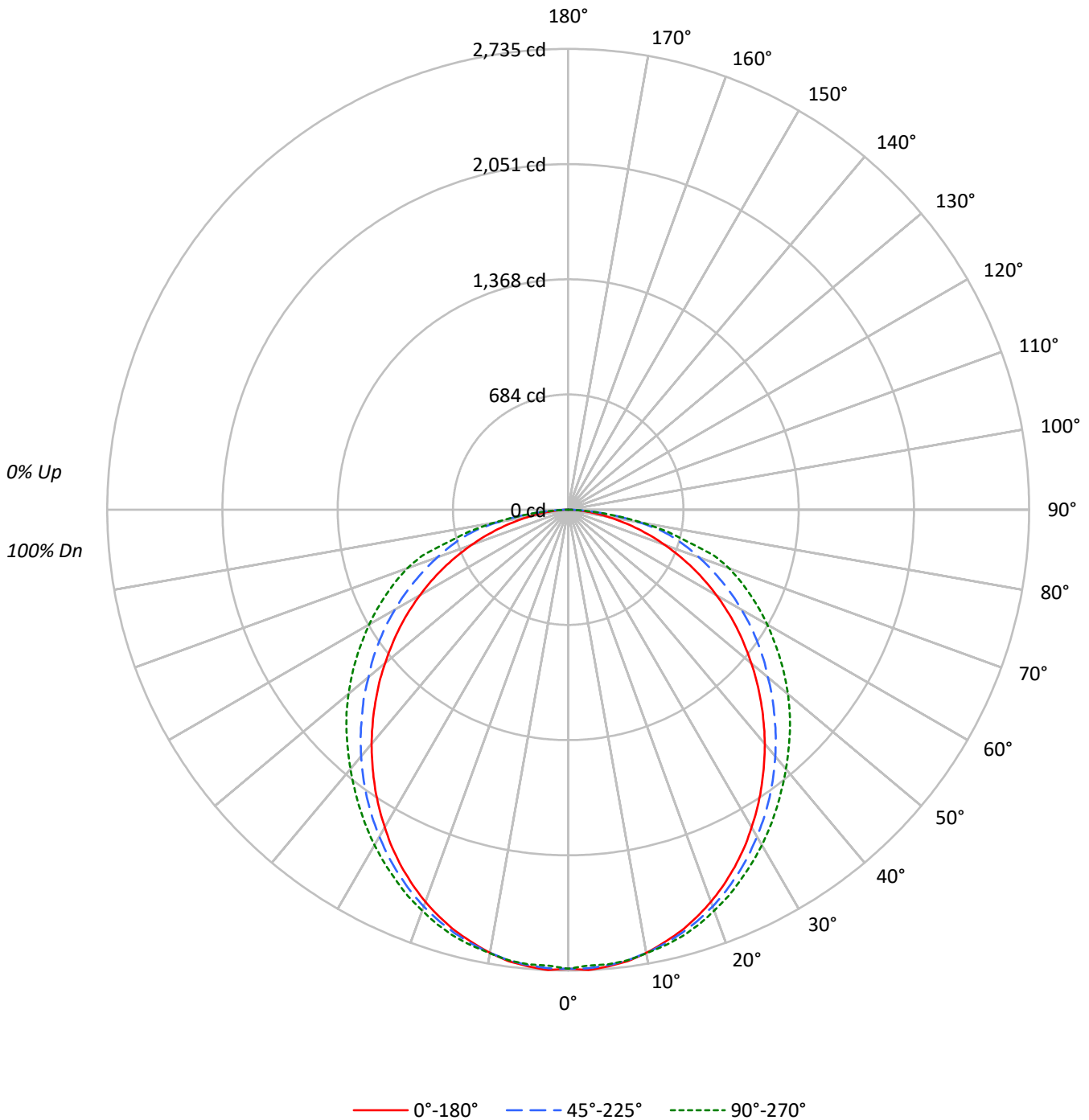
Input Watts (W): 59.799
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260788

CATALOG NUMBER: 24CZ-LD5-75-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P260788

CATALOG NUMBER: 24CZ-LD5-75-UNV-L82765-W2A1-U-5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3665	3665	3665
5°	3676	3665	3658
10°	3649	3649	3653
15°	3606	3624	3650
20°	3547	3588	3626
25°	3472	3539	3598
30°	3382	3481	3572
35°	3287	3422	3545
40°	3188	3356	3529
45°	3080	3292	3540
50°	2971	3238	3560
55°	2861	3217	3597
60°	2732	3197	3669
65°	2589	3198	3791
70°	2394	3251	3994
75°	2141	3399	3799
80°	1791	3254	3480
85°	1354	2502	2379



TEST NUMBER: P260788

CATALOG NUMBER: 24CZ-LD5-75-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.4	3.3
10°-20°	732.6	9.4
20°-30°	1095.2	14.1
30°-40°	1299.3	16.7
40°-50°	1337.3	17.2
50°-60°	1226.8	15.8
60°-70°	992.0	12.8
70°-80°	643.8	8.3
80°-90°	177.5	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2085.3	26.9
0°-40°	3384.6	43.6
0°-60°	5948.8	76.6
0°-90°	7762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7762.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2724	2724	2724	2724	2724	
5°	2721	2703	2713	2711	2708	258
15°	2588	2578	2602	2612	2620	729
25°	2339	2341	2384	2405	2424	1076
35°	2001	2017	2084	2129	2158	1251
45°	1618	1645	1730	1812	1860	1249
55°	1220	1257	1371	1483	1533	1090
65°	813	861	1005	1138	1191	804
75°	412	489	654	731	731	438
85°	88	149	162	157	154	107
90°	0	0	0	0	0	



TEST NUMBER: P260788

CATALOG NUMBER: 24CZ-LD5-75-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2724.1	2724.1	2724.1	2724.1	2724.1
2.5°	2734.7	2713.4	2724.1	2721.4	2708.1
5°	2721.4	2702.8	2713.4	2710.8	2708.1
7.5°	2702.8	2684.2	2697.5	2694.8	2697.5
10°	2670.9	2655.0	2670.9	2673.6	2673.6
12.5°	2631.0	2617.8	2639.0	2644.3	2649.6
15°	2588.5	2577.9	2601.8	2612.4	2620.4
17.5°	2535.4	2527.4	2556.6	2569.9	2580.5
20°	2476.9	2474.2	2506.1	2519.4	2532.7
22.5°	2410.5	2410.5	2447.7	2463.6	2482.2
25°	2338.7	2341.4	2383.9	2405.1	2423.7
27.5°	2261.6	2264.3	2314.8	2341.4	2362.6
30°	2176.6	2187.2	2240.4	2274.9	2298.8
32.5°	2091.5	2104.8	2163.3	2203.2	2229.7
35°	2001.2	2017.1	2083.6	2128.8	2158.0
37.5°	1908.2	1926.8	1998.5	2049.0	2083.6
40°	1815.2	1836.4	1910.8	1969.3	2009.2
42.5°	1716.8	1740.7	1823.1	1892.2	1934.7
45°	1618.5	1645.1	1730.1	1812.5	1860.3
47.5°	1520.2	1552.0	1642.4	1732.8	1783.3
50°	1419.2	1451.1	1546.7	1650.4	1700.9
52.5°	1318.2	1355.4	1461.7	1568.0	1618.5
55°	1219.8	1257.1	1371.3	1483.0	1533.4
57.5°	1118.9	1156.1	1281.0	1397.9	1448.4
60°	1015.2	1057.7	1188.0	1307.5	1363.4
62.5°	914.2	959.4	1097.6	1225.2	1278.3
65°	813.2	861.1	1004.6	1137.5	1190.6
67.5°	709.6	765.4	914.2	1049.8	1105.6
70°	608.6	669.7	826.5	962.1	1015.2
72.5°	510.3	576.7	738.8	877.0	908.9
75°	411.9	489.0	653.8	730.8	730.8
77.5°	318.9	404.0	558.1	587.3	603.3
80°	231.2	324.2	419.9	454.5	449.1
82.5°	154.1	247.2	300.3	300.3	292.3
85°	87.7	148.8	162.1	156.8	154.1
87.5°	37.2	55.8	50.5	39.9	34.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)